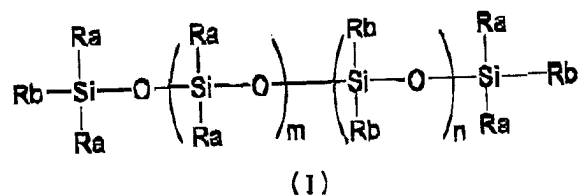


CLAIMS

- 1 An antireflective laminate comprising a light-transparent base material and a low-refractive index layer provided on the light-transparent base material, wherein
said low-refractive index layer is provided directly on a surface of light-transparent base material or is provided on the outermost surface of one or two or more optional layers provided on the surface of the light-transparent base material, and
said low-refractive index layer comprises hydrophobitized fine particles having an average particle diameter of not less than 5 nm and not more than 300 nm, and a binder.
- 2 The antireflective laminate according to claim 1, wherein said low-refractive index layer comprises a first layer formed of said fine particles and said binder and a second layer formed of said binder alone provided on the first layer, and the outermost surface of the low-refractive index layer has been rendered smooth.
- 3 The antireflective laminate according to claim 1, wherein the treatment for hydrophobizing the fine particles is carried out by treating the fine particles with a low-molecular organic compound, by treating said fine particles with a high-molecular compound, by treating said fine particles with a coupling agent, or by subjecting said fine particles to graft treatment with a hydrophobic polymer.
- 4 The antireflective laminate according to claim 1, wherein said fine particles are not fully wetted with water.
- 5 The antireflective laminate according to claim 1, wherein said binder comprises an ionizing radiation curing

resin.

- 6 The antireflective laminate according to claim 5, wherein at least one of functional groups contained in said ionizing radiation curing resin is a hydroxyl group.
- 7 The antireflective laminate according to claim 1, wherein said low-refractive index layer further comprises a fluorocompound and/or a silicon compound.
- 8 The antireflective laminate according to claim 7, wherein said fluorocompound is a compound containing a perfluoroalkyl, perfluoroalkylene, perfluoroalkyl ether, or perfluoroalkenyl group, or a mixture of compounds containing said groups.
- 9 The antireflective laminate according to claim 7, wherein said fluorocompound or/and said silicon compound is a compound represented by formula (I):
[Chemical Formula 1]



wherein

Ra represents an alkyl group having 1 to 20 carbon atoms,

Rb represents an unsubstituted alkyl group having 1 to 20 carbon atoms, or an amino, epoxy, carboxyl, hydroxyl, perfluoroalkyl, perfluoroalkylene or perfluoroalkyl ether group, or an (meth) acryloyl group-substituted alkyl group having 1 to 20 carbon atoms, an alkoxy group having 1 to 3 carbon atoms, or a polyether-modified group,

Ra and Rb may be the same or different,

m is an integer of 0 to 200, and

n is an integer of 0 to 200.

- 10 The antireflective laminate according to claim 7, wherein said fluorocompound and/or said silicon compound are represented by formula (II):



wherein

Rc represents a hydrocarbon group having 3 to 1000 carbon atoms and containing a perfluoroalkyl, perfluoroalkylene, or perfluoroalkyl ether group,

X represents an alkoxy, oxyalkoxy, or halogen group having 1 to 3 carbon atoms, and

k is an integer of 1 to 3.

- 11 The antireflective laminate according to claim 1, wherein said low-refractive index layer has a contact angle with water of not less than 90°.
- 12 The antireflective laminate according to claim 1, wherein the refractive index of the low-refractive index layer is not more than 1.45.
- 13 The antireflective laminate according to claim 1, wherein, in a planar area of 5 μm^2 in the outermost surface of the low-refractive index layer,
the ten-point mean roughness (Rz) is not more than 100 nm, and
the arithmetical mean roughness (Ra) is not less than 1 nm and not more than 30 nm.
- 14 The antireflective laminate according to claim 1, wherein a hardcoat layer is further provided as said optional layer.
- 15 The antireflective laminate according to claim 14, wherein said hardcoat layer has a refractive index of not

less than 1.57 and not more than 1.70.

- 16 The antireflective laminate according to claim 14,
 wherein said hardcoat layer further comprises an
 anti-dazzling agent.
- 17 The antireflective laminate according to claim 1,
 wherein
 an antistatic layer is further provided as the optional
 layer, and
 said antistatic layer is provided between said
 light-transparent base material and said low-refractive
 index layer or said hardcoat layer, or between said hardcoat
 layer and said low-refractive index layer.
- 18 The antireflective laminate according to claim 1,
 wherein
 an anti-dazzling layer is further provided as the
 optional layer, and
 said anti-dazzling layer is provided between said
 light-transparent base material and said low-refractive
 index layer or said hardcoat layer.
- 19 The antireflective laminate according to claim 1,
 wherein
 one or at least two other refractive index layer is
 further provided as the optional layer,
 said other refractive index layer is formed between
 said hardcoat layer and said low-refractive index layer,
 the refractive index of said other refractive index
 layer is more than 1.45 and not more than 2.00, and
 the thickness of said other refractive index layer is
 not less than 0.05 μm and not more than 0.15 μm .
- 20 The antireflective laminate according to claim 1,
 wherein at least one layer selected from the group

consisting of said low-refractive index layer, said hardcoat layer, said anti-dazzling layer, and said other refractive index layer contains an antistatic agent.

21 The antireflective laminate according to claim 1, wherein

an anti-fouling layer is further provided as said optional layer, and

said anti-fouling layer is provided on the surface of said light-transparent base material remote from said low-refractive index layer.

22 The antireflective laminate according to claim 1, wherein, after wiping off the surface of the antireflective laminate with water or an alkaline liquid composition with a pH value of 9 or higher, the reflectance, transmittance, and scratch resistance of the antireflective laminate remains unchanged from those of the antireflective laminate before the wiping-off.